

In the claims:

For the Examiner's convenience, all pending claims are presented below with changes shown.

1-28. (Cancelled)

29. (Currently Amended) A method for providing broadcast discovery in a network, the method comprising:

in response to a reset of a 1394 bus, generating advertised discovery information by every device connected to the 1394 bus;

receiving the advertised discovery information of every device connected to the 1394 bus by each discovering device in the 1394 network, ~~the network including a non-1394 network coupled to the 1394 bus;~~

receiving the advertised discovery information at each discovering device in a non-1394 network; and

each discovering device in the 1394 and non-1394 networks maintaining a list of devices in the network and a list of services associated with each device in the network using the advertised discovery information.

30. (Original) The method of claim 29 wherein the network comprises two or more 1394 buses coupled via a 1394 bridge.

31. (Original) The method of claim 29 wherein each device in the network is any one of a consumer electronic device, a peripheral device, a cable modem, and a personal computer.

32. (Original) The method of claim 29 wherein the advertised discovery information includes device and service information.

33. (Currently Amended) A method for providing a broadcast discovery in a network having one or more 1394 buses, the method comprising:

sending a solicit packet including a bus identifier to a plurality of network devices, coupled to one or more 1394 buses, by a discovering device; ~~the solicit packet containing a bus identifier, the network including a non-1394 network coupled to the one or more 1394 buses;~~

the discovering device sending the solicit packet to a plurality of network devices in a non-1394 network;

generating advertised discovery information by any of the plurality of network devices that is coupled to a bus with an identifier corresponding to the bus identifier in the solicit packet; and

the discovering device receiving the generated advertised discovery information and utilizing the generated advertised discovery information to maintain a list of the plurality of network devices and a list of services associated with each of the plurality of network devices.

34. (Original) The method of claim 33 wherein each of the plurality of network devices is any one of a consumer electronic device, a peripheral device, a cable modem, and a personal computer.

35. (Original) The method of claim 33 wherein the bus identifier in the solicit packet is a global bus identifier that corresponds to each bus in the network.

36. (Original) The method of claim 33 wherein the bus identifier in the solicit packet is an identifier of a certain bus in the network.

37. (Original) The method of claim 33 wherein the advertised discovery information includes device and service information.

38. (Currently Amended) A network comprising:

one or more 1394 buses;

one or more non-1394 networks; and

a plurality of network devices connected to the one or more 1394 buses and the non-1394 networks, each of the plurality of network devices generating advertised broadcast information upon a reset of a 1394 bus coupled to said each of the plurality of network devices and upon a receipt of a solicit packet containing a bus identifier corresponding to an identifier of a 1394 bus coupled to said each of the plurality of network devices the plurality of network devices including one or more discovering devices to receive the generated advertised broadcast information and to maintain a list of the plurality of network devices and a list of services associated with each of the plurality of network devices based on the generated advertised broadcast information.

39. (Original) The network of claim 38 wherein each of the plurality of network devices is any one of a consumer electronic device, a peripheral device, a cable modem, and a personal computer.

40. (Original) The network of claim 38 wherein the bus identifier in the solicit packet is a global bus identifier that corresponds to each bus in the network.

41. (Original) The network of claim 38 wherein the bus identifier in the solicit packet is an identifier of a certain bus in the network.

42. (Original) The network of claim 38 wherein the advertised discovery information includes device and service information.

43. (Currently Amended) A computer readable medium ~~that provides instructions~~ encoded with computer executable instructions, which when executed on a processor, cause said processor to perform operations comprising:

~~receiving advertised discovery information generated by every device connected to a 1394 bus upon a reset of the 1394 bus; and~~

~~maintaining a list of network devices and a list of services associated with each of the network devices using the advertised discovery information, the network including a non-1394 network coupled to the 1394 bus.~~

in response to a reset of a 1394 bus, generating advertised discovery information by every device connected to the 1394 bus;

receiving the advertised discovery information of every device connected to the 1394 bus by each discovering device in the 1394 network;

receiving the advertised discovery information at each discovering device in a non-1394 network; and

each discovering device in the 1394 and non-1394 networks maintaining a list of devices in the network and a list of services associated with each device in the network using the advertised discovery information.

44. (Original) The computer readable medium of claim 43 wherein the advertised discovery information includes device and service information.

45-46. (Cancelled)